Test Case

Project Name: Twitter Sentiment Analysis

Test Case ID: 3a   **Test Designed by:** Prabhav Arora

Test Priority (Low/Medium/High):   **Test Designed date:** 12/6/2020
High

Module Name: **Test Executed by:** Prabhav

Test Title: Valid NLP sentiment   **Test Execution date:** 12/7/2020
analysis verification

Description: This test case checks if
software is conducting valid NLP
sentiment analysis or not.

Objective: We will hand label the
sentiments of retrieved tweets and
then check accuracy of predictions. If
model accuracy >= 75% then our
model is effective.

Pre-conditions: Twitter servers are operational, there is a stable internet
connection, computer has enough processing power to run program

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	User enters a keyword.	"christmas" "police"	2 excel files with retrieved tweets are generated	3 excel files with retrieved tweets are generated	Pass	
2	Human software tester goes on excel file and hand labels each retrieved tweet as positive or negative	christmas.xlsx, police.xlsx	christmas.xlsx, police.xlsx, With labels and predictions	messi.xlsx, barcelona.xlsx, Palestine.xlsx With each tweet labelled positive or negative	Pass	
3	Human software tester cross check predictions with actual labels and calculates model accuracy.	christmas.xlsx, police.xlsx, With labels and predictions	Average Model Accuracy>=75%	Average Model Accuracy>=75%	Pass	

	Then calculates average					

Post-conditions: